

Navy Case No. 82408

On page 14, line 9, replace "(H<sub>2</sub>SO<sub>4</sub>)" with --(H<sub>2</sub>SO<sub>4</sub>)--.

On page 16, line 5, replace "(H<sub>2</sub>SO<sub>4</sub>)" with --(H<sub>2</sub>SO<sub>4</sub>)--.

**In the Claims:**

Please cancel claims 1-3; 15-22; and 25-26.

Please amend the remaining claims as follows:

1 CLAIM 6 [amended]

A 2 The apparatus of claim 5 in which said irradiation excites said anthracene [is excited] to emit phosphorescence.

Please add the following new claims:

A3 CLAIM 27

The apparatus of claim 7 wherein said anthracene is in its protonated form.

1 CLAIM 28

2 The apparatus of claim 27 in which said polymer is a polyelectrolyte fiber.

CLAIM 29

1 The apparatus of claim 28 in which said polyelectrolyte fiber is polyacrylic acid-polyvinyl  
2 alcohol (PAA-PVA).

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1 CLAIM 30

2 The apparatus of claim 29 in which said pH change in said solution is within plus or minus 1 pH  
3 value of a null point pH value of said polyelectrolyte fiber.

A3 *Sub 2* CLAIM 31

2 The apparatus of claim 7 in which said polymer is a polymer gel.

1 CLAIM 32

The apparatus of claim 31 in which said polymer gel is an acrylamide gel.

1 CLAIM 33

2 The apparatus of claim 32 in which said pH change in said solution is within plus or minus 1 pH  
3 value of a null point pH value of said polymer gel.

#### Remarks

Applicant hereby respectfully requests that the above-identified parent application be amended as indicated. The present application is intended as a divisional application of Serial Number 08/137,008 for which a final Office Action has been received. Applicant does not wish for the cited parent application to go abandoned, and desires that the method claims of the parent application be issued as a U.S. Patent. In this divisional application, apparatus and further method claims are presented pertaining to the invention described in the description of parent application Serial Number 08/528,386.

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